

APPLICANT(S): NAFTALI, Matan
SERIAL NO.: 10/565,980
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AMENDMENTS TO THE SPECIFICATION

In the Title:

Please replace the Title with the following Title: VERTICAL COMB DRIVE AND METHOD OF PRODUCING THE SAME

In the Specification:

Please amend the paragraph beginning on page **7**, line **9** as follows:

"Fig. 1a illustrates elevation of the stator combs using angular motion (about flexible supports 14) in accordance with a preferred embodiment of the present invention. The proposed VCD actuator comprises stator combs 10, which are fabricated in the *same* layer and *same* process as the rotor 12 and like the rotor, the stator combs are *also suspended* on flexible supports 14. This implementation is in contrast with common VCDs, in which the stators are fabricated in their fixed final position. The flexible supports of the stators enable to lower or elevate the stators into the desired position after the micro-machining process. The micro-machining process is a mechanical process, for fabricating the stators in the same level as the rotor and repositioning them in an ~~optical~~ optimal location relative to the rotor by applying required forces. Repositioning of the stators may be carried by using angular motion, as described in this figure, or by using axial motion (see Fig. 1b). Once the stators are repositioned in their optimal location, they are locked into their new position. Various means, such as using isolating glue, are provided for locking the stators into final position. The self-alignment between the rotor combs and stators is obtained by forcing the stator against displacement limiters before locking them into this final position."

Please amend the paragraph beginning on page **7**, line **28** as follows:

"Fig. 2 illustrates an angular VCD actuator known in the art, ~~whereas~~ wherein the relation between the tilting angle and the driving voltage is nonlinear. The rotor's torsion bar 20, according to this VCD implementation, is as thick as the rotor's layer 22 and the rotation axis is located in the middle of the device layer. Due to this axis location, the relation between the varying rotor voltage and the rotor angle is nonlinear."

Please amend the two adjacent paragraphs beginning on page **8**, line **16** as follows:

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"Fig. 5 illustrates the stator combs, in accordance with the present invention, ~~whereas~~ wherein the suspension is not in contact with the stoppers. The device is fabricated from a single layer of a substrate [[30]]. The rotor 12 and stators 10 are fully or partially inserted in a void in the substrate. Slits 32 are provided on either sides of the rotor, for receiving the flexible supports 14, the edges of the slit acting as stoppers, limiting the rotation of the flexible supports.

Fig. 6a illustrates the stator combs, in accordance with the present invention, ~~whereas~~ wherein the suspension is in contact with the stoppers in a maximum tilted angle. The contact moment, which is developed between the stoppers [[30]] and the rotor 12, causes the angular velocity of the motor to rapidly decrease. Eventually, the angular velocity is reversed and the suspension is separated from the stoppers [[30]] in order to regain free motion in the opposite direction."